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Supplemental Material

Prenatal PBDE and PCB Exposures and Reading, Cognition, and Externalizing Behavior in Children

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Table of Contents

Table S1. Coefficients in LASSO test of maternal chemical concentrations to children's reading scores, FSIQ and Externalizing Problems score at age 8 years

Figure S1. Children's Reading Composite scores at age 8 years by maternal participants and children's demographic characteristics in the HOME Study

Table S1. Coefficients in LASSO test of maternal chemical concentrations to children's reading scores, FSIQ and Externalizing Problems score at age 8 years

Models	Chemicals	Reading Composite	FSIQ	Externalizing Problems
Model 1	Log ₁₀ Sum ₄ PBDEs	-5.6	-3.8	2.1
	Log ₁₀ Sum ₄ PCBs	6.5	0.5	-
Model 2	Log ₁₀ BDE-47	-	-	-
	Log ₁₀ BDE-99	-	-4.1	0.5
	Log ₁₀ BDE-100	-3.8	-	-
	Log ₁₀ BDE-153	-1.6	-0.5	2.2
	Log ₁₀ PCB-118	1.0	-	-0.3
	Log ₁₀ PCB-138-158	-	-	-
	Log ₁₀ PCB-153	6.2	-	-
	Log ₁₀ PCB-180	0.5	1.3	-

^: Adjusted for maternal age, education, race, IQ, household-income, parity, marital status, maternal smoking

(serum cotinine concentrations), depression, fish consumption, child sex, and HOME score. It can not yield 95% Cis when selecting variables and estimating parameters.

Model 1: LASSO regression with Log₁₀Sum₄PBDEs and Log₁₀Sum₄PCBs after adjustment.

Model 2: LASSO regression with Log₁₀ transformed PBDE congeners (BDE-47, -99, -100, and -153) and PCB congeners (PCB-118, -138-158, -153, and -180) after adjustment.

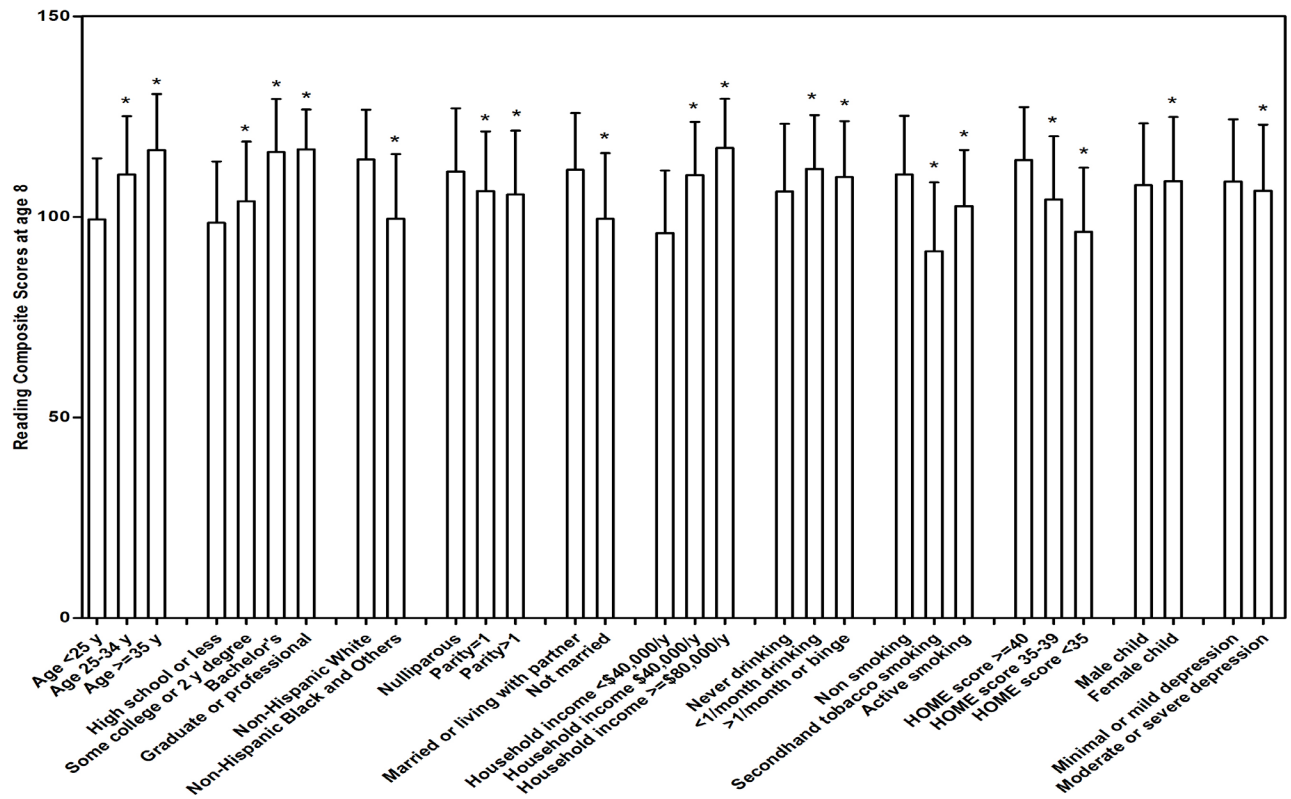


Figure S1. Children's Reading Composite scores at age 8 years by maternal participants and children's demographic characteristics in the HOME Study ("*": $p < 0.05$ comparing to the first subgroup given in this graph.)